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D-202, D-204

MIXED CURRENCY COUNTER

HANDLING MANUAL

BILLCON CO., LTD. . .

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MANUAL OF MIXED CURRENCY COUNTER D-202/204

SUMMARY:

MIXED CURRENCY COUNTER D-202/204 counts three denominations of paper currency being mixed, and indicates the total yen value and number of notes processed as well. In the mode of "designated dominations", COUNTER counts only the notes of the designated designation and selects out the notes of other denominations, if any. COUNTER is multifunctional not only to count ordinary notes but also to perform Preset Counting.

1. SPECIFICATIONS

ITEMS	SPECIFICATIONS
Counting Objects	Three Denominations of Domestic Paper Currency (¥10,000, ¥5,000 and ¥1,000), and their Equivalents
Counting Speed	600 Notes per Minute (for Ordinary Paper Currency)
Counting Modes	1. Mixed Denominations 2. Designated Denominations 3. (Foreign & Domestic) Paper Currency
Preset Number	Continuous, Batch Counting of 10 or 100 Notes, and ADD Indication (but cannot for the "Mixed Counting Mode")
Indication of Counts	1. No. of Notes: Four Figures 2. Yen Value: Eight Figures (at ¥1,000)
ADD Indication	Selectable
Error Detect/Indicate	Doubled, Chained, Halved (Longitudinally or Transversely), Jamming, Different Denomination in the Mode of the "Designated Denomination", or Non-Discriminative Note
External Interfaces	D-202: RS232C & Centronics (for Printers) D-204: RS422 & Centronics (for Printers)
Hopper Capacity	about 350 Notes
Stacker Capacity	about 300 Notes
External Size	340 mm Wide x 335 mm Deep x 280 mm High
Weight	about 12 Kg
Power Supply	AC 100 V \pm 10 %, 50 or 60 Hz Power: 65 W

2. 各部の名称とはなにか

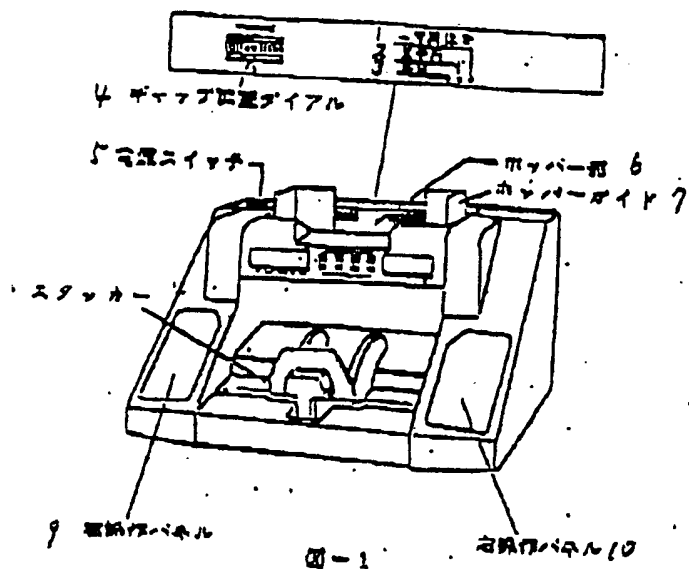


図-1

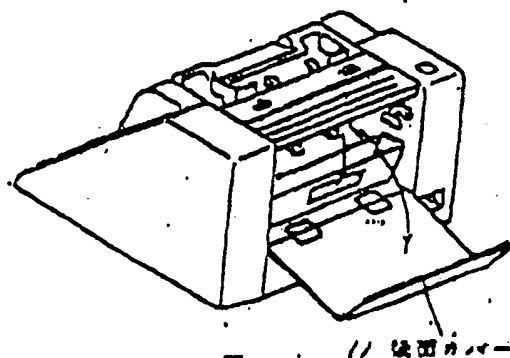
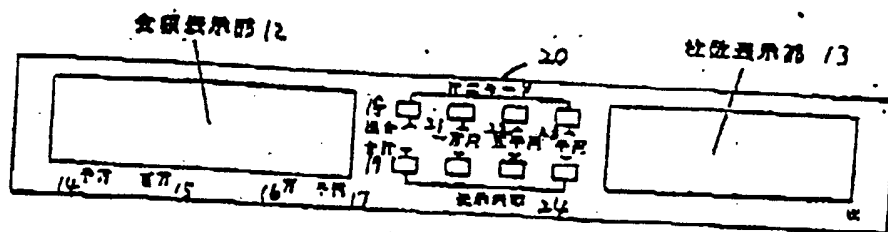
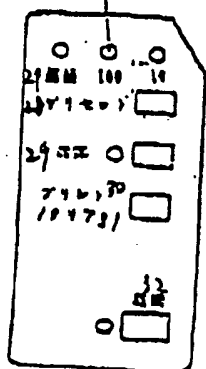


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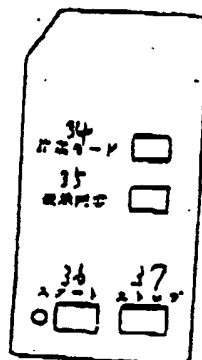


中央パネル 25

プリセット表示ランプ 26



33 左操作パネル



右操作パネル 38

図-3

2. NAMES AND FUNCTIONS OF PARTS

- 1 \$10,000 Mixed
- 2 \$5,000 Mixed
- 3 \$1,000 Mixed
- 4 Gap Adjusting Dial
- 5 Power Switch
- 6 Hopper
- 7 Hopper Guides
- 8 Stacker
- 9 Left Control Panel
- 10 Right Control Panel
- 11 Rear Cover
- 12 Value Indicator
- 13 Note No. Indicator
- 14 \$10,000,000
- 15 \$1,000,000
- 16 \$10,000
- 17 \$1,000
- 18 Mixed
- 19 Total
- 20 Counting Mode
- 21 \$10,000
- 22 \$5,000
- 23 \$1,000
- 24 Indications
- 25 Center Panel
- 26 Preset Indication Lamps
- 27 Continuous
- 28 Preset
- 29 Add
- 30,31 Print/Clear
- 32 Continuous
- 33 Left Control Panel
- 34 Counting Mode
- 35 Indications
- 36 Start
- 37 Stop
- 38 Right Control Panel

NAMES	FUNCTIONS
Power Switch	"ON" when pushed, and "OFF" when pushed again. Lamp in the Switch is lit during "ON".
Value Indicator	Value is indicated with LED of five figures (at ¥1,000)
Note No. Indicator	Counted Note Number is indicated with LED of four figures.
"ADD" Switch	"ON" when pushed, to indicate the accumulations of the value and the note number. Lamp is lit during "ON".
Print/Clear Switch	Both the value and the note number are set, when pushed, to "0". Clearance is not made while notes or papers are left on Stacker. Acts as Start Switch for Printer when connected to it.
"Preset" Switch	Pushed to select a preset number for the batch counting. (In the "Mixed" mode, however, the preset counting is impossible but for the "Continuous" mode.)
"Preset" Indication Lamp	Lit to indicate the preset number selected by "Preset" Switch. Shifted to "Continuous", "100" and "10" in this order each time Switch is pushed.
"Continuous" Switch & Indication Lamp	Lit according to the kinds of alarms when countings are stopped with the alarms. Continues, when pushed, the stopped countings after the causes have been removed. (Item 5 of page 5)
"Counting Mode" Switch & Indication Lamp	Shifted from the "Mixed" to "¥10,000", "¥5,000", "¥1,000" and "No Light" in this order each time Switch is pushed. "No Light" implies the state of the (following) note number.

	<p>Mixed Denominations:</p> <p>Counting Mode Indication Lamp indicates "Mixed".</p> <p>Three denominations of paper currency can be counted while being mixed.</p> <p>Designated Denominations:</p> <p>Counting Mode Indication Lamp selects one denomination of "¥10,000", "¥5,000" and "¥1,000". Counts the designated denomination and discriminates the notes of different denominations.</p> <p>Paper Currency:</p> <p>Counts foreign notes and coupons other than the domestic notes (of the three denominations).</p>
"Indication Content" Switch & Indication Lamp	<p>Used in the "Mixed" counting mode for accumulating the values and numbers of notes of individual denominations counted.</p> <p>Shifted to "Total", "¥10,000", "¥5,000" and "¥1,000" in this order.</p> <p>Indication Lamp at the position of indication is lit.</p> <p>This indication is automatically returned to the "Total" indication after lapse of a predetermined time after Switch was operated.</p>
"Stop" Switch	<p>Used for stopping the counting midway.</p> <p>"Start Switch Lamp" at the left of "Start Switch" is lit when Switch is turned "ON".</p>

Start Switch & Indication Lamp	<p>Lit according to the kinds of alarms when countings are stopped with the alarms.</p> <p>Restart, when pushed, the stopped countings after the causes have been removed. (Item 5 of page 5)</p>
Hopper	<p>Used to place the notes to be counted thereon, and equipped at its right and left with guides for determining the note width.</p> <p>Further equipped at the note placing portion with a detector for checking the existence of notes.</p>
Hopper Guides	Determines note widths.
Gap Adjusting Dial	<p>Let off according to the thickness or quality of the notes or coupons to be counted, to adjust the gap between drums.</p> <p>Used for the ordinary notes with its Red Mark being aligned with Arrow Mark.</p> <p>Turned to "THICK" for counting thicker notes.</p>
Rear Cover	Opened when notes are left inside of COUNTER or when the inside is to be cleaned or inspected.
Center Panel	Equipped with Indication Lamps for indicating the value and number of notes and the counting mode, and Indication Lamps for indicating the indication contents of individual denominations.
Stacker	<p>Here are arranged the notes counted and let off.</p> <p>Equipped with a runner and a support plate for arranging the notes.</p>
Left Control Panel	Equipped with "ADD" Switch and its Indication Lamp, "Print/Clear Switch" and its Indication Lamp, "Continuous" Switch and its Indication Lamp, and "Preset Switch" and its Indication Lamp.
Right Control Panel	Equipped with "Counting Mode" Switch, "Indication Content" Switch, "Stop" Switch and "Start" Switch, and their Indication Lamps.

3. HOW TO USE

Countings should follow the following PROCEDURE.

PROCEDURE	CONTENTS
(1) Connect Power	Power Cord is fully inserted into Power Receptacle on the rear of COUNTER. (Note) At a first use after unpacking, guide portions are free for protecting rubber rollers and are set according to the description attached hereto.
(2) Adjust Gap	Red Mark of Gap Adjusting Dial is aligned with Arrow Position.
(3) Turn "ON" Power Switch	Numerical Character "9" is indicated in all the figures of Number Indicator and Value Indicator and turned to "0" after several seconds. Then, Motor rotates for a short time to remove the notes or the like, if left inside of COUNTER, until it stops. After "ON", the Switches take the following modes. The counting mode is "Mixed"; the indication content is "Total"; the preset is "Continuous".
(4) Set Counting Mode	Any of "Mixed", "Designated Denomination" and "Paper Currency" is selected with "Counting Mode" Switch (although "Mixed" mode prevails just after Power Switch was "ON"). When the mode is switched after the counting, the previous counted content is cleared. COUNTER will not work if any previous counted note is left on Stacker after switched.
(5) Select Preset No.	"Continuous", "100" or "10" is selected with Preset Switch.
(6) Select ADD	ADD Switch is turned "ON" when the counted numbers and values are to be accumulated. With ADD Switch "ON", the indications of counts are not cleared but added even if the counted notes are removed from Stacker.
(7) Count	Notes are neatly arranged and placed on Hopper. The counting starts automatically. In the case of start with Switch after notes were placed on Hopper, Stop Switch is pushed beforehand, and Start Switch is then pushed.

4. COUNTINGS IN OPERATION MODES

Please select a counting mode matching the following specifications at the time of selecting each counting mode.

	MIXED	DESIGNATED DENOMINATIONS	PAPER CURRENCY
Notes and Coupons to Be Counted	Mixed Counting of Domestic Notes (¥10,000, ¥5,000 and ¥1,000)	Counting of One Denomination of the Domestic Notes	Countings of Foreign Notes and Coupons Other Than the Domestic Notes
Selection of "Counting Mode"	Mixed	Select "¥10,000", "¥5,000" and "¥1,000"	Indication Lamps of all "Counting Modes" are not lit.
Indications of Values	Total Value of Mixed Denominations	Total Value of Designated Denomination	No Indication
Indications of Note Numbers	Total Number of Mixed Denominations	Total Number of Designated Denomination	Total Number of Coupons
Indications of Value and Number with "Indication Content" Switch	The total value and number of denominations are indicated. The value and number of a designated denomination can be selectively indicated with Switch.		
Selection of "Preset Number"	Only "Continuous" counting cannot be preset.	"Continuous", "100" or "10" is selected.	
Counting Operation and Value at the Preset	All notes on Hopper are counted. When notes are removed from Stacker, all indications are returned to "0", and the subsequent counting is started. With ADD Switch "ON", however, the indications are added with no return to "0".	When the preset number is reached, Buzzer goes, and the counting stops automatically. When the notes are removed from Stacker, the indications return to "0" to start the subsequent counting. With ADD Switch "ON", however, the counted indications are added with no return.	

5. CAUSES FOR AND TREATMENTS OF ALARMS

The counting stops automatically when Alarms go.

The alarming state is coarsely divided into A Alarm, in which the indication flashes simultaneously with the stop, and B Alarm, in which the buzzer goes simultaneously with the flashing. These two kinds of alarms are differently processed as follows.

5-1 A Alarm

At the time of this Alarm, "Start Lamp" is lit to reopen the counting.

KINDS OF CAUSES	STATES	ALARM INDICATIONS	TREATMENTS
Jamming	Notes are left inside of COUNTER	"Flashing Indications"	<ul style="list-style-type: none"> ● Rear Cover is opened to move Apron downward, and notes left inside (as shown in Fig. 2) are removed and returned to Hopper (only in the jamming case). ● Counted notes in Stacker are also returned to Hopper. ● When "Start" Switch is pushed, the indication returns to "0" to reopen the counting. (With ADD Switch ON in the batch counting mode, however, the indication returns to the previous accumulated numerical value with no addition.)
Chained	Notes are let off with no interval.		
Doubled	Notes are let off while being doubled.		

5-2 B Alarm

At the time of this Alarm, Buzzer goes simultaneously as "Continuous Lamp" is lit, and the Continuous counting is possible.

KINDS OF CAUSES	STATES	ALARM INDICATIONS	TREATMENTS
Halved	Notes, as longitudinally or transversely divided, are detected.	*Flashing indications and Buzzing	<ul style="list-style-type: none"> ● Only causing notes (or notes finally let off) are removed from Stacker. ● Counting is continued if "Continuous" Switch is pushed. ● The indications of counts are added to the indicated value before the stop.
Non-Discriminative	Discriminations of notes are impossible.		
Designated Denomination	Different denominations are discriminated at the "Designated Denomination" time.		

*Flashing indications: Indications of Value and Number Flash.

6. CAUTIONS ON HANDLING

6-1 Removal of Notes Improper for Countings

The following notes may cause the alarms or may trouble the countings and should be removed beforehand, if possible: notes having extremely many wrinkles; notes having folded or cut corners; holed or broken notes; notes having adhesive tapes thereon; and extremely soiled notes.

6-2 Frequent Errors of Chained Notes

These errors are caused because Gap Adjusting Dial has failed to be set at the proper position so that the let-off is not correct.

The Dial is turned to the "THIN" side by one or two scales to make an adjustment for the correct let-off (although the turned position may overrun the ordinary red mark).

6-3 Easy Errors of Doubled Notes

These errors are caused because the set position of Gap Adjusting Dial is improper so that notes are simultaneously let off. Dial is turned to "THIN" for the adjustment. As a matter of fact, seriously soiled notes may be discriminated as the doubled ones and are then removed.

6-4 Places for Use

It is advisable to avoid the use at an extremely bright place (as may be exposed to a direct solar ray).

6-5 Cleaning of Lamps/Sensors

An alarm may arise when sensors catch paper or dust.

Sensors should be cleaned once a day.

Sensors and Lamps should be wiped on their surfaces with soft brush or dry cloth. Lamps can be accessed to by opening Rear Cover and by moving down lower Guide Plate (as shown in Fig. 2). Sensors can be located at upper positions facing those Lamps.

6-6 Cleaning of Rollers

Rollers are soiled on their surfaces with printing ink or fats and oils after a long use. These soils may affect the let-off of notes adversely, and the roller surfaces should be wiped with clean cloth wetted with a small quantity of alcohol, once at two months (while avoiding thinners or benzene).

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